Assignment -2

Python Programming

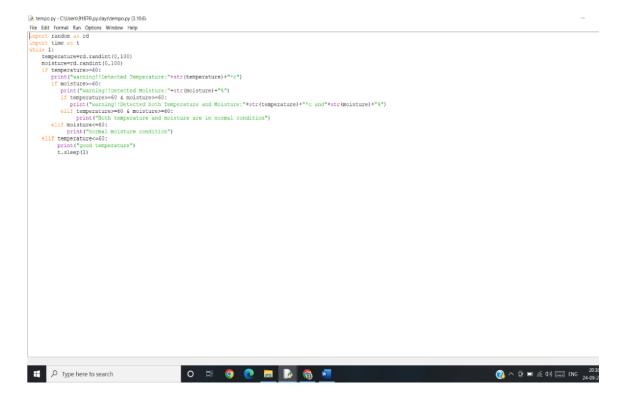| Student Name	K. Dharnesh
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Question-1:

Build a python code, Assume get Temperature and Humidity values (Generated with Random Function to a Variable) and write a condition to continuously detect alarm in case of high temperature.

Solution:

import random as rd

import time as t

while1:

  temperature=rd.randint(0,100)

moisture=rd.randint(0,100)   if

temperature>=60:

    print("warning!!Detected Temperature:"+str(temperature)+"*c")

if moisture>=60:

     print("warning!!Detected Moisture:"+str(moisture)+"%")

if temperature>=60 & moisture>=60:

      print("warning!!Detected both Temperature and Moisture:"+str(temperature)+"*c and"+str(moisture)+"%")

 elif temperature>=60 & moisture>=60:

       print("Both temperature and moisture are in normal condition")

elif moisture<=60:

     print("normal moisture condition")

elif temperature<=60:

    print("good temperature")

    t.sleep(1)

```
tempo.py - C:\Users\91876\py.days\tempo.py (3.10.6)
File  Edit  Format  Run  Options  Window  Help
import random as rd
import time as t
while 1:
    temperature=rd.randint(0,100)
    moisture=rd.randint(0,100)
    if temperature>=60:
        print("warning!!Detected Temperature:"+str(temperature)+"*c")
        if moisture>=60:
            print("warning!!Detected Moisture:"+str(moisture)+"%")
            if temperature>=60 & moisture>=60:
                print("warning!!Detected both Temperature and Moisture:"+str(temperature)+"*c and"+str(moisture)+"%")
            elif temperature>=60 & moisture>=60:
                    print("Both temperature and moisture are in normal condition")
        elif moisture<=60:
            print("normal moisture condition")
    elif temperature<=60:
        print("good temperature")
        t.sleep(1)
```

Output

```
IDLE Shell 3.10.6
File  Edit  Shell  Debug  Options  Window  Help
warning!!Detected Temperature:84*c
warning!!Detected Moisture:62%
warning!!Detected both Temperature and Moisture:84*c and62%
good temperature
warning!!Detected Temperature:84*c
warning!!Detected Moisture:73%
good temperature
warning!!Detected Temperature:65*c
warning!!Detected Moisture:98%
good temperature
warning!!Detected Temperature:91*c
normal moisture condition
warning!!Detected Temperature:82*c
normal moisture condition
warning!!Detected Temperature:93*c
normal moisture condition
warning!!Detected Temperature:100*c
warning!!Detected Moisture:75%
good temperature
warning!!Detected Temperature:60*c
warning!!Detected Moisture:83%
warning!!Detected Temperature:77*c
normal moisture condition
good temperature
warning!!Detected Temperature:83*c
normal moisture condition
good temperature
warning!!Detected Temperature:88*c
normal moisture condition
good temperature
warning!!Detected Temperature:76*c
warning!!Detected Moisture:100%
warning!!Detected Temperature:78*c
normal moisture condition
warning!!Detected Temperature:91*c
warning!!Detected Moisture:94%
warning!!Detected Temperature:64*c
normal moisture condition
good temperature
good temperature
warning!!Detected Temperature:70*c
normal moisture condition
warning!!Detected Temperature:61*c
normal moisture condition
good temperature
good temperature
```